

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
24 February 2005 (24.02.2005)

PCT

(10) International Publication Number
WO 2005/017065 A1

(51) International Patent Classification?: C09K 11/06,
C08G 61/12

(21) International Application Number:
PCT/EP2004/009249

(22) International Filing Date: 18 August 2004 (18.08.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
03018832.0 19 August 2003 (19.08.2003) EP

(71) Applicant (for all designated States except US): COVION
ORGANIC SEMICONDUCTORS GMBH [DE/DE];
65926 Frankfurt am Main (DE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): TOWNS, Carl
[GB/GB]; Crown Cottage, 193 Silver Street, Mountfitchet,
Stansted, Essex. CM24 8HB (GB). REES, Ian [GB/GB];
3 Celtic House, Hooper Street, Cambridge CB1 3EQ
(GB). GRIZZLI, Ilaria [GB/GB]; 220 Cromwell Road,
Cambridge, CB1 3EQ (GB). WALLACE, Paul [GB/GB];
11 Redwing Rise, Royston, Hertfordshire SG8 7XU (GB).

(74) Agents: DÖRR, Klaus et al.; Industriepark Höchst, Geb.
F821, 65926 Frankfurt am Main (DE).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

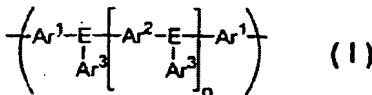
(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: OLIGOMER AND POLYMER COMPRISING TRIPHENYL PHOSPHINE UNITS



(57) Abstract: An oligomer or polymer comprising a first repeat unit and a second repeat unit that may be the same or different, the first repeat unit having formula (I): wherein each E independently represents optionally substituted nitrogen or optionally substituted phosphorus, with the proviso that at least one E is optionally substituted phosphorus; each Ar¹, Ar² and Ar³ is the same or different and independently represents an optionally substituted aryl or heteroaryl; n is 0-3; and in the case of unsubstituted nitrogen and phosphorus, the second repeat unit is directly conjugated to the first repeat unit.

WO 2005/017065 A1

Best Available Copy